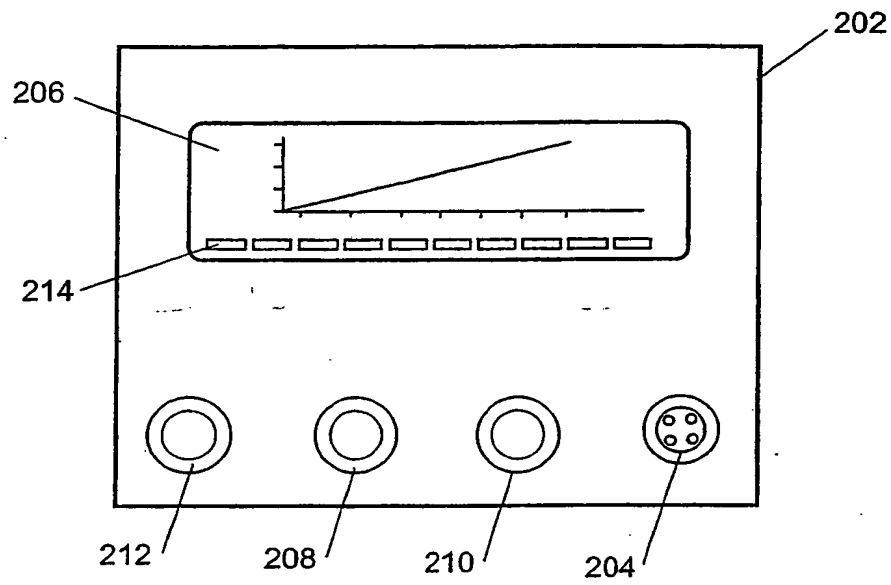


FIGURE 1

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**FIGURE 2**

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300

306

308

316

314

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304

Current parameters In J&J

Wetting & Drying Cycles

Number of suction steps: 10

Number of drying & wetting cycles: 1

Time limit for saturation process: 10

Wetting Cycles ON

Suction Equilibrium time limits

Time Now: 2003/5/29 8:59:58

Started Time: 2003/5/29 8:14:00

Sample height(cm): 0

Sample No: 1

Manual Control

Get Data

Current Volume

No Records: 29

Enter new parameters

Wetting and Drying Cycles

Number of suction steps: 10

Number of drying & wetting cycles: 1

Time limit for saturation process: 1

☒ No wetting cycles ☐ Wetting cycles

Suction & Equilibrium Time Limits

Sample height cm (1 to 10): 0

Sample No:(0 to 254): 1

Step No: 1 to 10

Suction (cm): 8, 16, 24, 32, 40, 48, 56, 64, 72, 80

Time Limit: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

Setup Ports

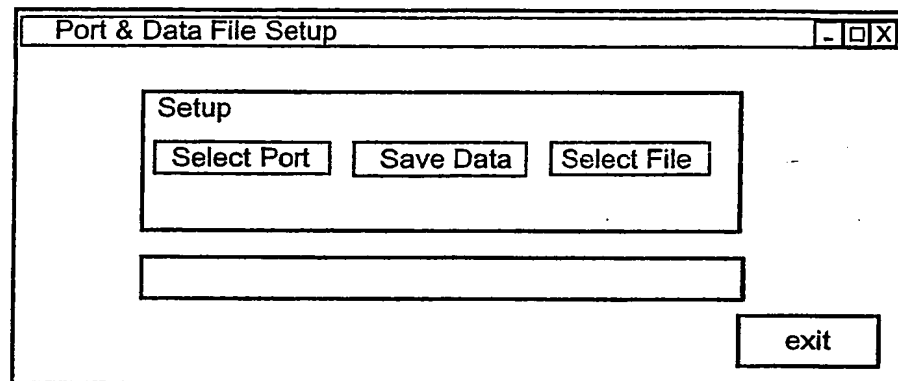
Wake Up

Program

Quit

J & J is Ready to Receive Commands

FIGURE 3

**FIGURE 4.**

Extract Data

Collect Data

Get Data Data Received Text1

Time (min) Volume (ml) Suction (cm) Cycle T.Limit (min) Cycle No

Year Month Date Hr Min Sec Dry/Wet Suction Volume ☐

Save Text1 Exit

FIGURE 5

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Current Progress		- □ X
Drying cycle No: 1 current suction is 40cm		
300 ml of water expelled from the sample		
in 6 h and 34 min. 124 min remaining for equilibrium		

FIGURE 6

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The image shows a screenshot of a software window titled "Form1". The window contains a grid of buttons for controlling various valves and rack movements. The buttons are arranged in two columns and six rows. The first five rows have two buttons each, while the sixth row has one button on the left and one on the right.

Form1	
Open Sample Valve	Close Sample Valve
Close Air Valve	Open Air Valve
Close Drain Valve	Open Drain Valve
Close Tank Valve	Open Tank Valve
Rack Home	Rack Single Step Up
Rack Single Step Down	Exit

FIGURE 7

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Water volume in/out from the sample & programme data output from J & J					
Time	Volume Out / IN ml	Suction applied cm water	Equilibrium Time Limit min	Saturating Drying or Wetting	Cycle Number
6	40	0	1	1	0
11	80	0	1	1	0
16	120	0	1	1	0
22	160	0	1	1	0
27	200	0	1	1	0
33	240	0	1	1	0
39	280	0	1	1	0
45	320	0	1	1	0
52	360	0	1	1	0
59	400	0	1	1	0
66	440	0	1	1	0
73	480	0	1	1	0
81	520	0	1	1	0
89	560	0	1	1	0
97	600	0	1	1	0
105	640	0	1	1	0
114	680	0	1	1	0
124	720	0	1	1	0
134	760	0	1	1	0
144	800	0	1	1	0
155	840	0	1	1	0
167	880	0	1	1	0
180	920	0	1	1	0
193	960	0	1	1	0
208	1000	0	1	1	0
224	1040	0	1	1	0
241	1080	0	1	1	0
259	1120	0	1	1	0

FIGURE 8

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J & J Moisture Release Curve Outflow data

900

Trial run -2

902

Programme details

Saturation time limit(min) :	1
No of Dry / Wet Cycles :	1
Plat / Plate + Sample :	
Date & Time started :	6/04/2003 17:27
No. of data points :	1660

Suction step	Suction cm water	Eql. Time limit (min)
1	8	3
2	16	4
3	24	5
4	32	6
5	40	7
6	48	8
7	56	9
8	64	10
9	72	11
10	100	12

904

Final sample data

Initial soil weight (W(s + w) (g))	
Dry soil weight (Ws)	75
Final weight of water (WT)	2000

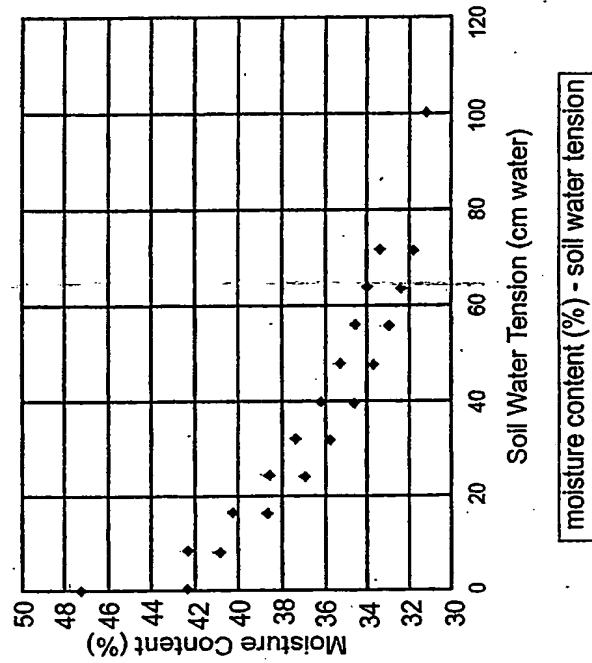


FIGURE 9